

**[0045]** Thus, while the invention has been particularly shown and described with respect to preferred embodiments thereof, the above description is intended by way of example only and is not intended to limit the present invention in any way except as set forth in the following claims.

5 CLAIMS

What is claimed is:

- 1 1. A method within an electronic device for adjusting a dialing sequence used  
2 for initiating a call in a wireless communication system, the electronic  
3 device operating in a region, the method comprising the steps of:  
4 evaluating the dialing sequence to determine if the dialing sequence  
5 requires any adjustment;  
6 determining a first code of the region based on current location of the  
7 electronic device, if determined that the dialing sequence requires any  
8 adjustment; and  
9 adjusting the dialing sequence based on said first code of the region.
- 1 2. The method as claimed in claim 1, wherein the step of evaluating  
2 comprises a step of determining if the dialing sequence represents an  
3 emergency number.
- 1 3. The method as claimed in claim 2, wherein the step of adjusting comprises  
2 a step of using a current location emergency number associated with said  
3 first code of the region, if determined that the dialing sequence represents  
4 an emergency number.
- 1 4. The method as claimed in claim 3, wherein the step of determining first  
2 code comprises the step of accessing a database, said first code  
3 comprising a country code.
- 1 5. The method as claimed in claim 2, wherein said step of determining if the  
2 dialing sequence represents an emergency number, comprises a step of  
3 determining if the dialing sequence is in a list of emergency numbers, said  
4 list of emergency numbers are stored in a database.
- 1 6. The method as claimed in claim 1, wherein the step of determining said  
2 first code of the region comprises the step of accessing a memory, said  
3 memory storing a base station area code and the step of setting said first  
4 code to said base station area code.

- 1 7. The method as claimed in claim 1, wherein the step of determining said  
2 first code of the region comprises the step of determining a position of the  
3 electronic device.
- 4
- 1 8. The method as claimed in claim 7, wherein the step of determining said  
2 first code of the region further comprises the step of accessing a database  
3 to determine an area code associated with said determined position of the  
4 electronic device.
- 1 9. The method as claimed in claim 1, wherein the step of evaluating the  
2 dialing sequence, comprises the step of determining if a length of the  
3 dialing sequence equals to a minimum length required by the region, the  
4 region associated with said first area code.
- 1 10. The method as claimed in claim 1, wherein the step of evaluating the  
2 dialing sequence, comprises the step of determining if a length of the  
3 dialing sequence equals to a minimum length required by a home region  
4 associated with an assigned home area code of the electronic device.
- 1 11. The method as claimed in claim 1, further comprising the step of  
2 determining a location category based on said first code of the region and  
3 the step of setting said location category to an In\_home region category,  
4 an In\_neighbor region category or an In\_roaming region.
- 1 12. The method as claimed in claim 11, wherein the step of determining said  
2 location category, comprises the step of setting said location category to  
3 said In\_home region category, if said determine first code equals to a  
4 home area code assigned to the electronic device.
- 1 13. The method as claimed in claim 11, wherein the step of determining said  
2 location category, comprises the step of setting said location category to  
3 said In\_neighbor region category, if said determine first code equals to a  
4 neighbor area code assigned to the electronic device.

- 1 14. The method as claimed in claim 11, wherein the step of determining said  
2 location category, comprises the step of setting said location category to  
3 said In\_roaming region category, if said determine first code does not  
4 equals to a home area code assigned to the electronic device and a  
5 neighbor area code assigned to the electronic device.
- 1 15. The method as claimed in claim 1, wherein the step of adjusting comprises  
2 the step of adding an area code to the dialing sequence, said area code  
3 provided by the user of the electronic device.
- 1 16. The method as claimed in claim 15, wherein the step of adding comprises  
2 the step of prompting a user to provide said area code.
- 1 17. The method as claimed in claim 15, wherein the step of adding comprises  
2 the step of prompting a user to select said area code from a plurality of  
3 area codes.
- 1 18. The method as claimed in claim 15, wherein the step of prompting the user  
2 to select, comprises the step of generating said plurality of area codes.
- 1 19. The method as claimed in claim 1, wherein the step of adjusting comprises  
2 the step of adding a home area code to adjust said dialing sequence.
- 1 20. The method as claimed in claim 1, wherein the step of adjusting comprises  
2 the step of adding a neighbor area code to adjust said dialing sequence.
- 1 21. An electronic device operated in a region, the electronic device receiving a  
2 dialing sequence for initiating a call in a wireless communication system,  
3 the electronic device comprising:
- 4 a processor for evaluating the dialing sequence to determine if the dialing  
5 sequence requires any adjustment; said processor further determining a  
6 first code of the region based on current location of the electronic device  
7 and adjusting the dialing sequence based on said first code of the region if  
8 determined that the dialing sequence requires any adjustment.

1 22. The electronic device as claimed in claim 21, wherein said processor  
2 further determines if the dialing sequence represents an emergency  
3 number.

1 23. The electronic device as claimed in claim 22, wherein said processor  
2 further uses a current location emergency number associated with said  
3 first code of the region, if determined that the dialing sequence represents  
4 an emergency number.

1 24. The electronic device as claimed in claim 23, wherein said processor  
2 further accesses a database to determine said first code, said first code  
3 comprises a country code.

1 25. The electronic device as claimed in claim 22, the electronic device further  
2 comprising:

3 a memory coupled said processor, said memory comprising a  
4 database;

5 said database comprising a list of emergency numbers; and

6 said processor further determines if the dialing sequence is in said list  
7 of emergency numbers.

1 26. The electronic device as claimed in claim 21, wherein said processor  
2 further receives a base station area code from a base station and sets said  
3 first code to said base station area code.

1 27. The electronic device as claimed in claim 21, wherein said processor  
2 further determines a position of the electronic device.

1 28. The electronic device as claimed in claim 21, wherein said processor  
2 further determines if a length of the dialing sequence equals to a minimum  
3 length required by the region associated with said first area code.

1 29. The electronic device as claimed in claim 21, wherein said processor  
2 further determines if a length of the dialing sequence equals to a minimum

3 length required by a home region associated with an assigned home area  
4 code of the electronic device.

1 30. The electronic device as claimed in claim 21, wherein said processor  
2 further determines a location category based on said first code of the  
3 region, prior to adjusting the dialing sequence.

1 31. The electronic device as claimed in claim 30, wherein said location  
2 category, comprises an In\_home region category, an In\_neighbor region  
3 category and an In\_roaming region category.

1 32. The electronic device as claimed in claim 31, wherein said processor  
2 further sets said location category to said In\_home region category, if said  
3 determine first code equals to a home area code assigned to the electronic  
4 device.

1 33. The electronic device as claimed in claim 31, wherein said processor  
2 further sets said location category to said In\_neighbor region category, if  
3 said determine first code equals to a neighbor area code assigned to the  
4 electronic device.

1 34. The electronic device as claimed in claim 31, wherein said processor  
2 further sets said location category to said In\_roaming region category, if  
3 said determine first code does not equals to a home area code assigned to  
4 the electronic device and a neighbor area code assigned to the electronic  
5 device.

1 35. The electronic device as claimed in claim 21, further comprising:  
2 an input device coupled to said processor; said input device for  
3 receiving an area code from a user of the electronic device; and  
4 said processor further for adding said area code to the dialing  
5 sequence.

1 36. The electronic device as claimed in claim 35, further comprising:

2 a display coupled to said processor; and  
3 said processor further using said display for prompting the user to  
4 provide said area code.

1 37. The electronic device as claimed in claim 35, further comprising:

2 a display coupled to said processor; and  
3 said processor further using said display for prompting the user to  
4 select said area code from a plurality of area codes.

1 38. The electronic device as claimed in claim 37, wherein the processor  
2 further generates said plurality of area codes and displays said plurality of  
3 area codes on said display, prior to prompting the user.

1 39. The electronic device as claimed in claim 21, wherein the processor  
2 further adds a home area code to adjust said dialing sequence.

1 40. The electronic device as claimed in claim 21, wherein the processor  
2 further adds a neighbor area code to adjust said dialing sequence.

1 41. The electronic device as claimed in claim 21, wherein the processor  
2 further stores a home area code, a home country code and a list of  
3 neighboring area codes prior to initiating the call.

1 42. The electronic device as claimed in claim 21, wherein the processor  
2 further receives base station information from a base station, said base  
3 station information comprises a base station country code and a base  
4 station area code, prior to initiating the call.

1 43. The electronic device as claimed in claim 21, wherein the electronic device  
2 comprises a mobile terminal.

1 44. The electronic device as claimed in claim 21, wherein the electronic device  
2 comprises a personal digital assistant.

1 45. A method within an electronic device for adjusting a dialing sequence used  
2 for initiating a call in a wireless communication system, the electronic  
3 device operating in a current region defined by current location of the  
4 electronic device, the method comprising the steps of:

5 evaluating the dialing sequence to determine if the dialing sequence is an  
6 emergency number;

7 determining a current location emergency number associated with the  
8 current region; and

9 adjusting the dialing sequence to use said current emergency number if  
10 determined that the dialing sequence presents said emergency number.

1 46. The method as claimed in claim 45, wherein the step of determining,  
2 comprises the step of determining a country code and retrieving said  
3 current location emergency number associated with said country code of  
4 the current region.

1 47. The method as claimed in claim 46, wherein the step of determining said  
2 country code, comprises the step receiving a country code from a base  
3 station.

1 48. The method as claimed in claim 46, wherein the step of determining said  
2 country code, comprises the step calculating a position of the electronic  
3 device and using the position to determine the country code.

1 49. The method as claimed in claim 48, wherein the step of determining said  
2 country code, comprises the step receiving said country code from an  
3 input device of the electronic device.

1 50. An electronic device operated in a current region based on current location  
2 of the electronic device and receiving a dialing sequence for initiating a call  
3 in a wireless communication system, the electronic device comprising:



4 a processor for evaluating the dialing sequence to determine if the  
5 dialing sequence is an emergency number; said processor further for  
6 determining a current location emergency number associated with the  
7 current region and adjusting the dialing sequence to use said current  
8 emergency number if determined that the dialing sequence presents  
9 said emergency number.

1 51. The electronic device as claimed in claim 50, wherein the processor  
2 further determines a country code and retrieves said current emergency  
3 number associated with said country code of the current region to  
4 determine said current emergency number.

1 52. The electronic device as claimed in claim 51, wherein the electronic device  
2 comprises a mobile terminal.

1 53. The electronic device as claimed in claim 51, wherein the electronic device  
2 comprises a personal digital assistant.

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